

ABSTRACT OF THE DISCLOSURE

A novel system for facilitating the work for setting the horizontal direction of a guide laser beam is disclosed. The guide laser beam (P) can be radiated in vertical and lateral directions from the horizontal direction as a reference by a guide laser beam radiator (20). The reference horizontal direction position of the guide laser beam radiator (20) is detected by a first GPS unit (75). A pole (81) has a second GPS unit (76) for detecting a horizontal position. A reference horizontal direction position of the guide laser radiator (20) is detected by the first GPS unit (75). A first horizontal direction position is detected by the second GPS unit (76) of the pole (81) set up at a first position (83), thereby specifying the direction Z1 in which the guide laser beam (P) is to be radiated from the reference horizontal direction position as an origin. A second horizontal direction position is detected by the second GPS unit (76) of the pole (81) set up at a second position (80) so as to radiate the guide laser beam (P) on the pole (81), thus specifying the actual direction in which the guide laser beam (P) is radiated from the reference horizontal direction position as an origin. The angle (ϕ) that the direction in which the guide laser beam (P) is to be radiated forms to the actual direction (Z2) in which the guide laser beam (P) is radiated is determined. Based on the angle ϕ , the direction Z2 in which the guide laser beam (P) is actually radiated is changed to the direction Z1 in which the guide laser beam (P) is to be radiated.